Design Phase-2

Data Flow Diagram & User Stories

Date	15 October 2022
Team ID	PNT2022TMID53713
Project Name	Gas leakage monitoring and alerting system for industries
Maximum Marks	4 Marks

DataFlow Diagram:-

- A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored

FLOWCHART : GAS LEAKAGE MONITORING AND ALERTING SYSTEM
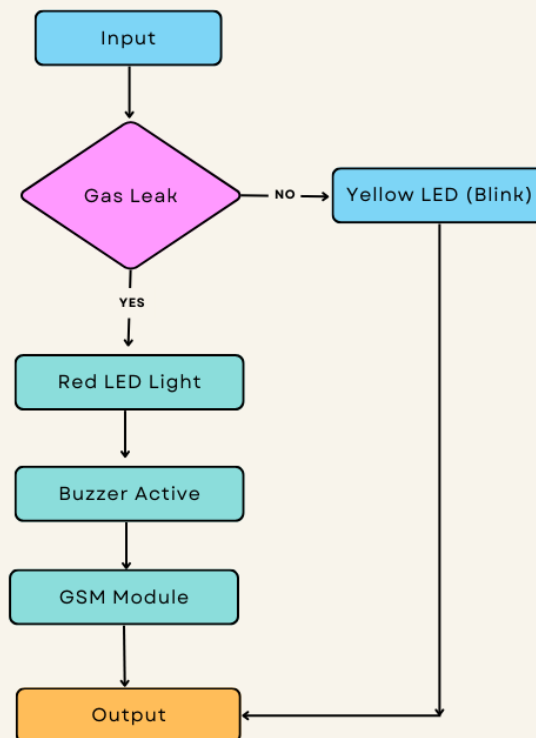
User Stories:-

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer(family member/industry owner)	Registration	USN-1	As a user, I can register for the device in the owner's mobile application by entering my email and password	I can access my account/dashboard	High	Sprint-1
Customer(higher authority)	Confirmation	USN-2	As a user, I will receive a confirmation message via email and once I received I can install the device in the owners place	I can receive a confirmation email & click confirm	High	Sprint-1
Customer (fire service 101)	Safety measure register	USN-3	As a register, I canregister the application in the owner/family members mobile phone	I can register & access the dashboard with Facebook Login	Low	Sprint-2
Customer (mobile user)	Mobile application	USN-4	As a user, I can register by mobile application	I can register for a gas detection device with the owner's mobile number.	Medium	Sprint-1
Customer (credential)	Login	USN-5	As a user, I can login to the device by entering my email & password in the owner's mobile application	Mail addresses and passwordsare the default	High	Sprint-1
Customer (Web user)	Notification	USN-6	As a user when there is a critical situation regarding a gas explosion the alert notification will be received through GSM module	The alert message is sent to the owner's mobile as an SMS.	High	Sprint-1

Customer care Executive	Network Connectivity	USN-7	As a user when there is a critical situation regarding a gas explosion the alert notification will be received through GSM module	The sensor detects the leakage andnotifies the owner via message	High	Sprint-1
Administration	Accessing	USN-8	When there is an issue in accessing the device	When there is an issue in accessing the device	High	Sprint-1